

XP-002288863

AN - 1997-468159 [43]
AP - JP19960023859 19960209
CPY - SUME
DC - A85 L03 X16
FS - CPI;EPI
IC - H01M2/16
MC - A04-E08 A04-G01E A12-E06B L03-E01A
- X16-B01F1 X16-F02
PA - (SUME) SUMITOMO ELECTRIC IND CO
PN - JP9219185 A 19970819 DW199743 H01M2/16 006pp
PR - JP19960023859 19960209
XA - C1997-148760
XIC - H01M-002/16
XP - N1997-390556
AB - J09219185 The diaphragm comprises a porous resin film (1), comprising polytetrafluoroethylene, on the surface of which a porous resin particle aggregate layer (3) is formed. The layer comprises multiple resin fine particles (2) for shut down, which comprise an ethylene copolymer and which have a low m. pt., greater than 10 deg. C. The resin particles are fused and fixed onto the surface of the porous resin film at a time when short circuit is generated in the battery.
- USE - Used in e.g. lithium secondary batteries used in portable electronic devices.
- ADVANTAGE - The generation of an inner short circuit at the positive electrode is prevented. The life time of the battery is prolonged. The discharge capacity is improved. The battery can be used in a low temperature environment.
- (Dwg.1/1)
IW - SEPARATE NON AQUEOUS ELECTROLYTIC SECONDARY BATTERY COMPRISE RESIN PARTICLE RESIN PARTICLE AGGREGATE LAYER FUSE FIX SURFACE POROUS RESIN FILM TIME SHORT CIRCUIT GENERATE BATTERY
IKW - SEPARATE NON AQUEOUS ELECTROLYTIC SECONDARY BATTERY COMPRISE RESIN PARTICLE RESIN PARTICLE AGGREGATE LAYER FUSE FIX SURFACE POROUS RESIN FILM TIME SHORT CIRCUIT GENERATE BATTERY
NC - 001
OPD - 1996-02-09
ORD - 1997-08-19
PAW - (SUME) SUMITOMO ELECTRIC IND CO
TI - Separator for non-aqueous electrolytic secondary battery - comprises resin particles of resin particle aggregate layer which fuse and fix onto surface of porous resin film at time when short circuit is generated in battery
A01 - [001] 018 ; R00975 G0022 D01 D12 D10 D51 D53 D59 D69 D82 F- 7A ; H0000 ; S9999 S1285-R ; P0511 ;
- [002] 018 ; K9574 K9483 ; N9999 N7147 N7034 N7023 ; B9999 B5221 B4740 ; Q9999 Q7341 Q7330 ; K9665 ; ND01 ;
- [003] 018 ; B9999 B5447 B5414 B5403 B5276 ; N9999 N7090 N7034 N7023 ;
A02 - [001] 018 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D82 ; H0011-R ; S9999 S1456-R ; P1150 ;
- [002] 018 ; K9574 K9483 ; N9999 N7147 N7034 N7023 ; B9999 B5221 B4740 ; Q9999 Q7341 Q7330 ; K9665 ; ND01 ;
- [003] 018 ; B9999 B5607 B5572 ; B9999 B5209 B5185 B4740 ;

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